

FIGURE 7

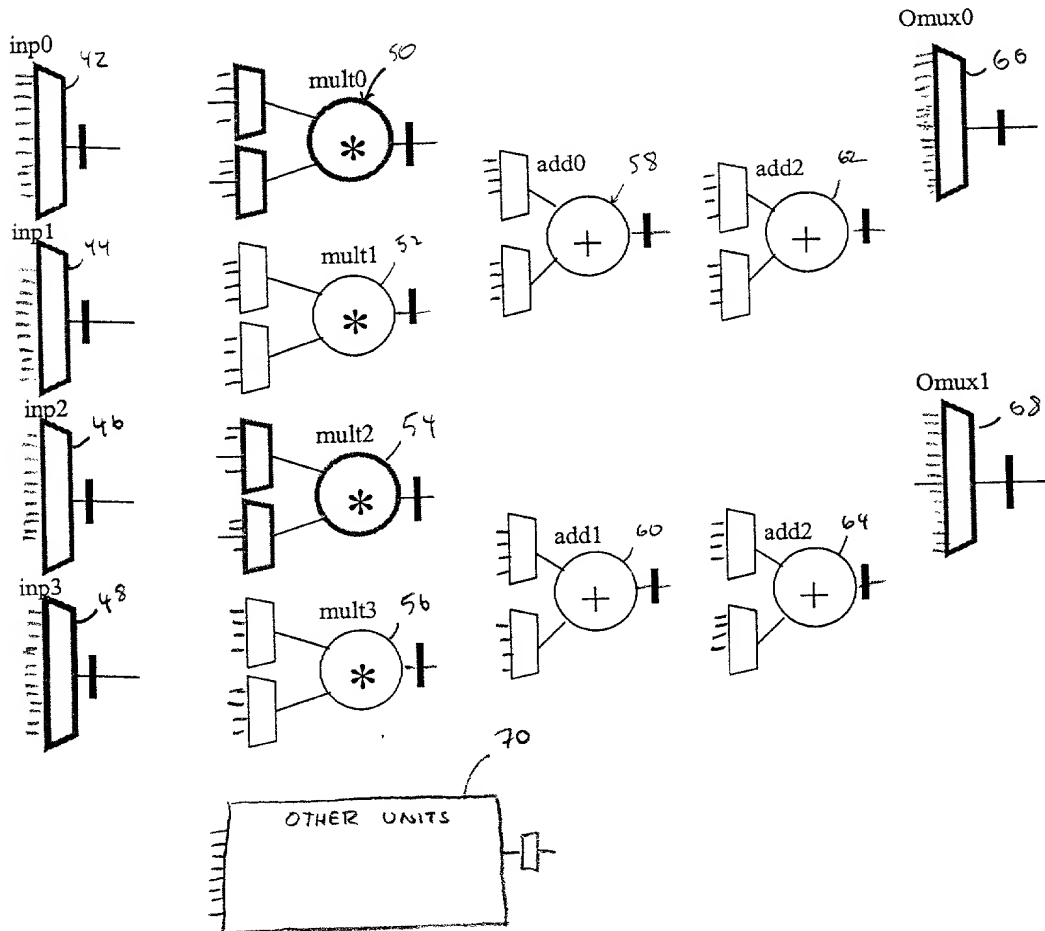
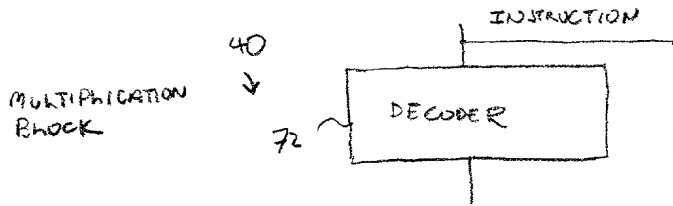


FIGURE 2

2MULT – CS2112 Compatible mode 2 independent multipliers

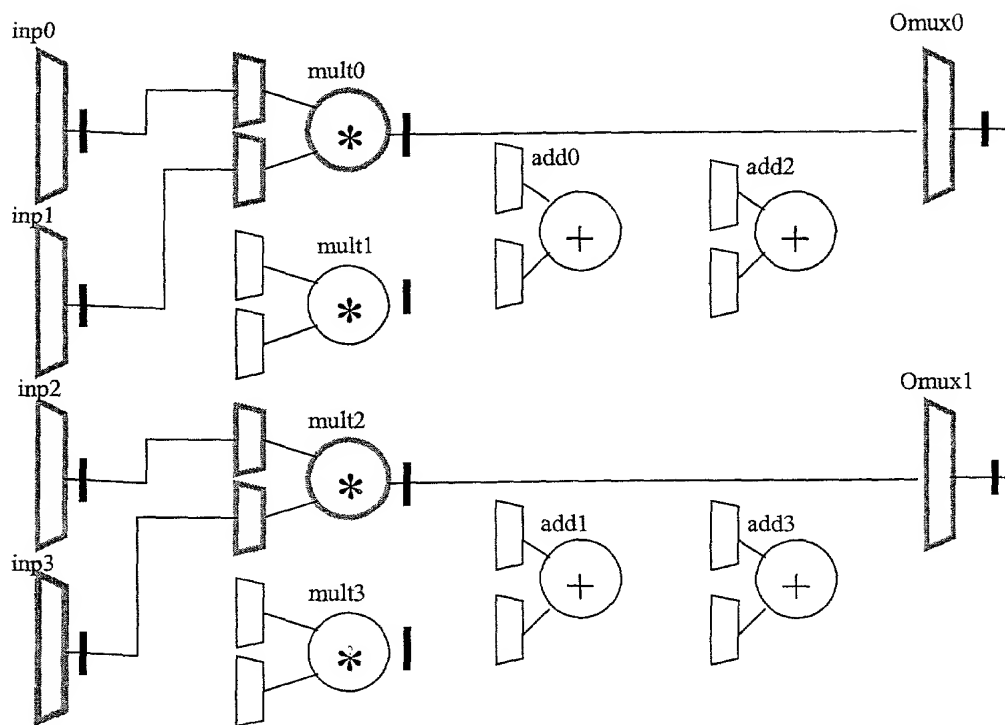
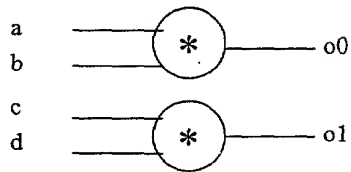


FIGURE 3A

4ADD32 – Sum of 4 32-bit inputs

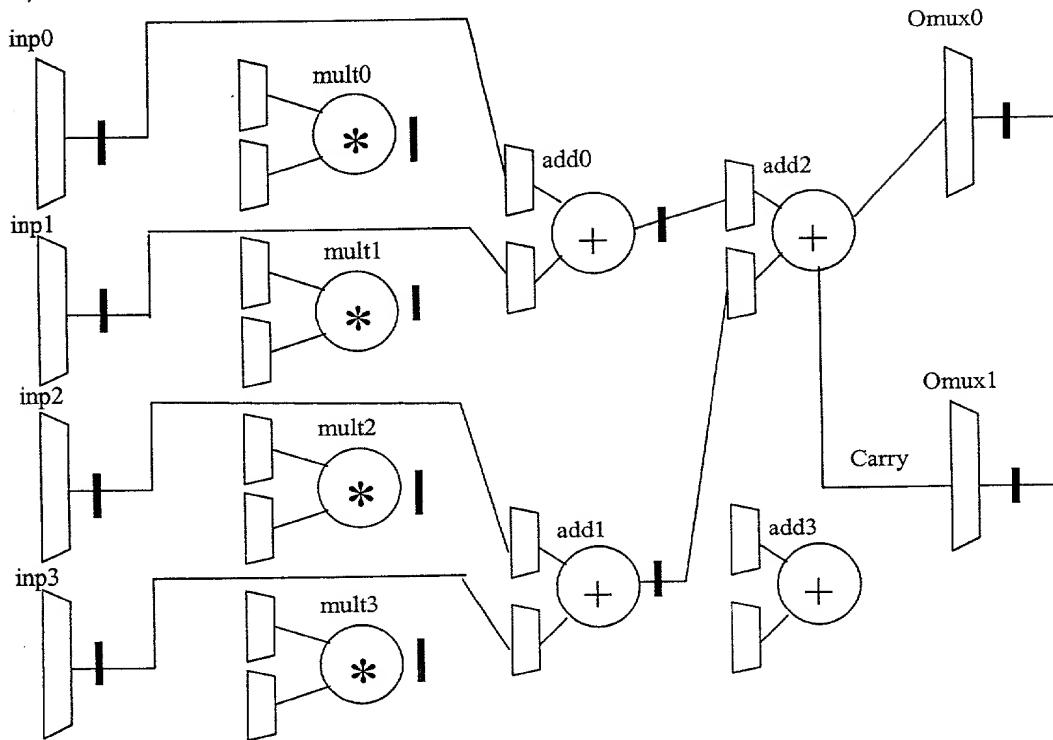
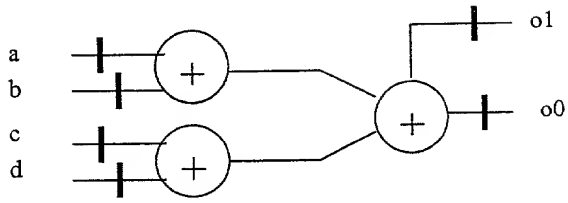


FIGURE 3B

4ADD16 – Sum of 4 packed 16-bit inputs, sum of upper, lower 16-bits

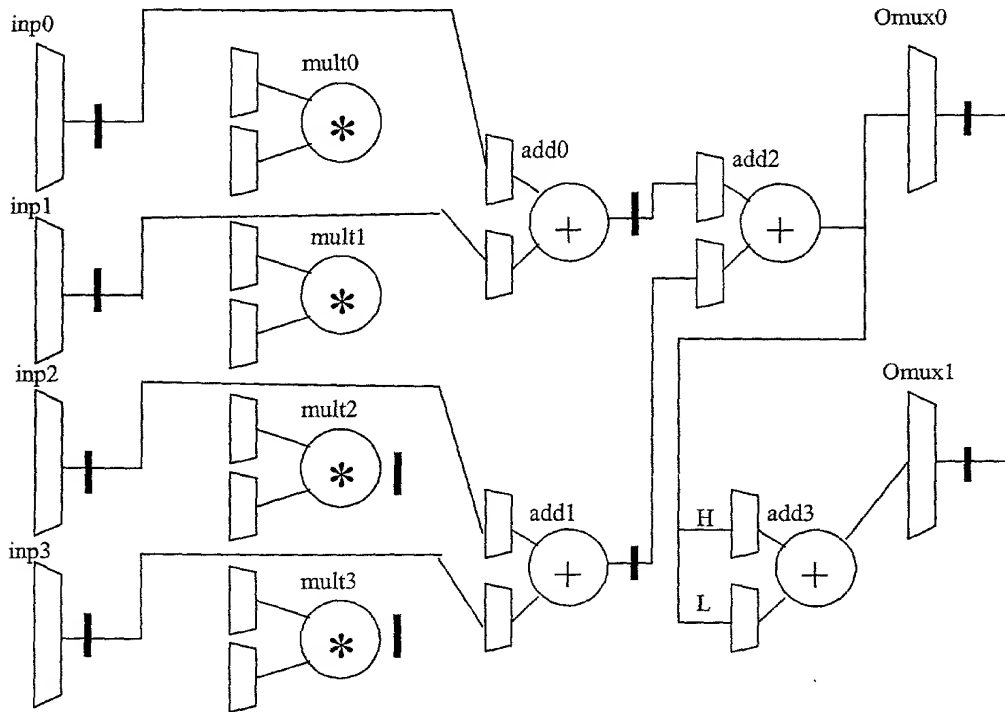
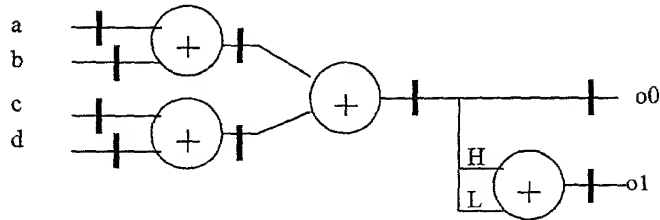


FIGURE 3C

4MULT – 4 multipliers with pack 16-bit inputs

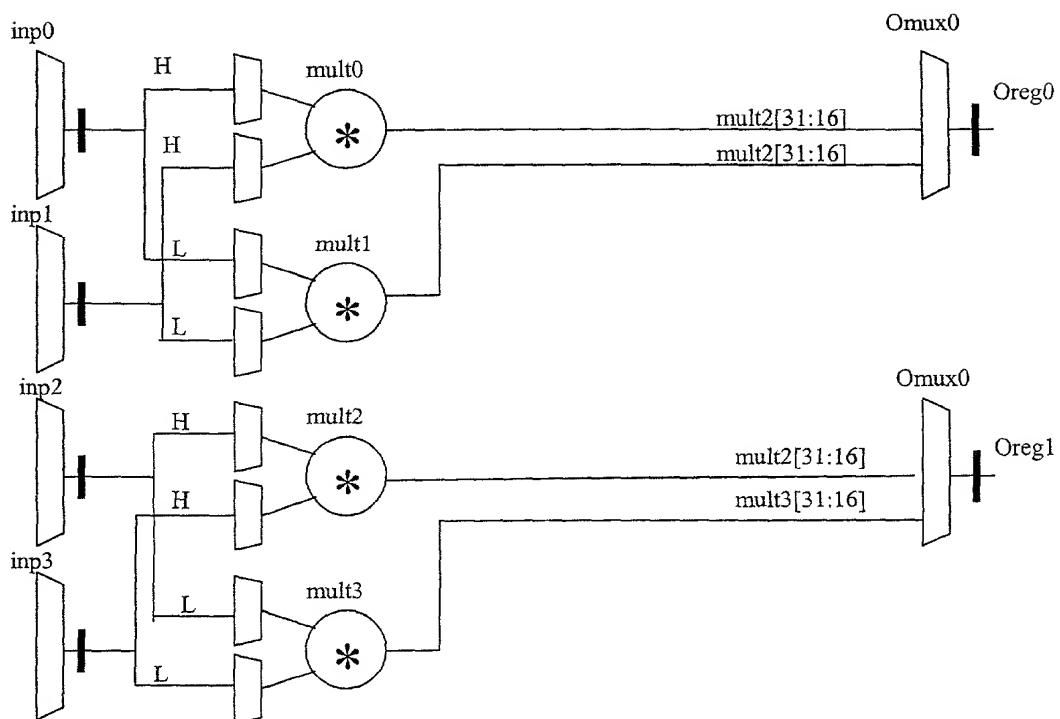
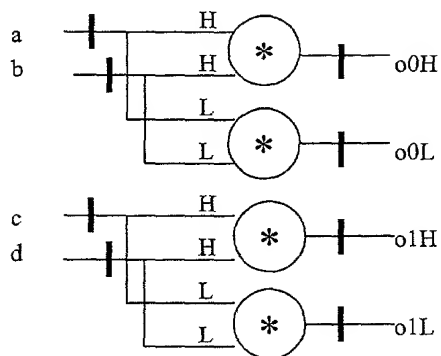


FIGURE 30

4MULTSUM – Sum of 4 multipliers

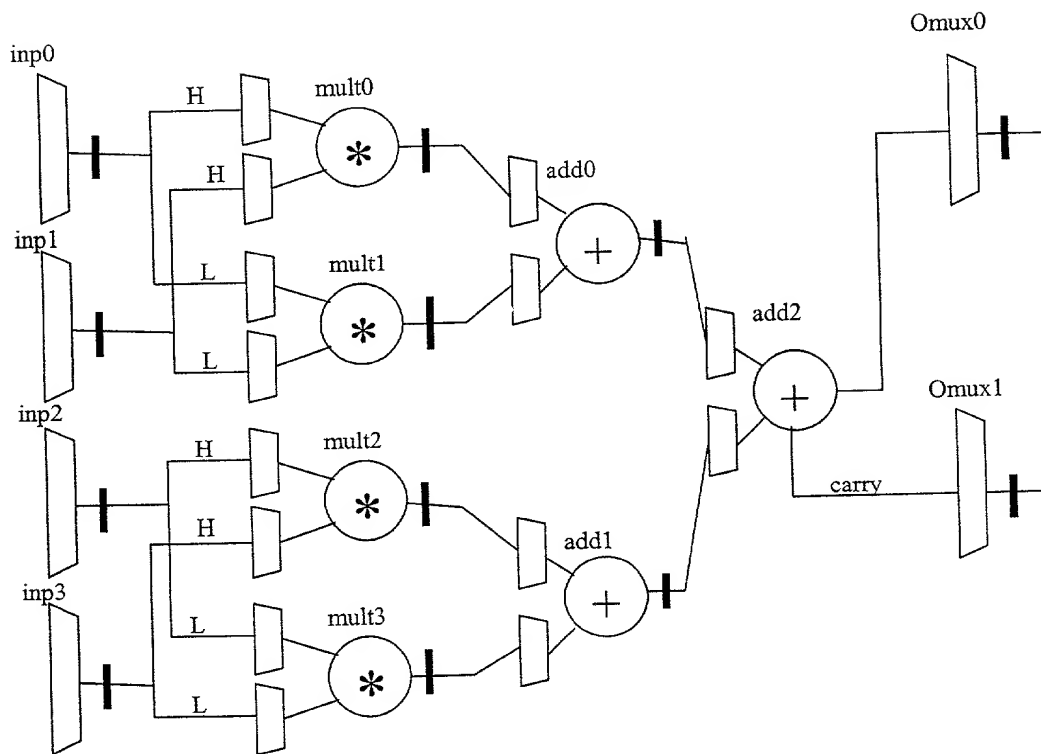
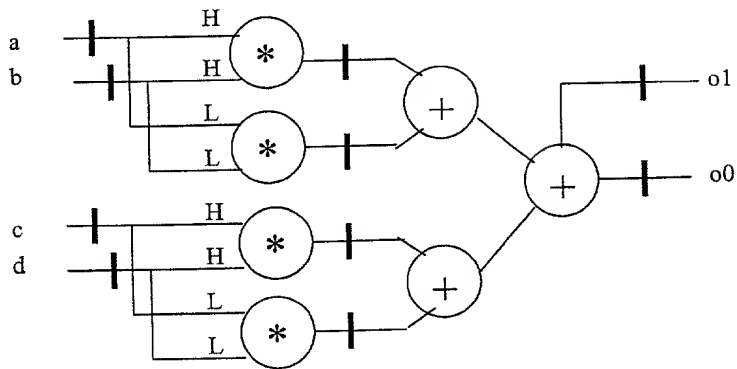


FIGURE 3E

4MULT2SUM – 2 Sums of 2 multipliers

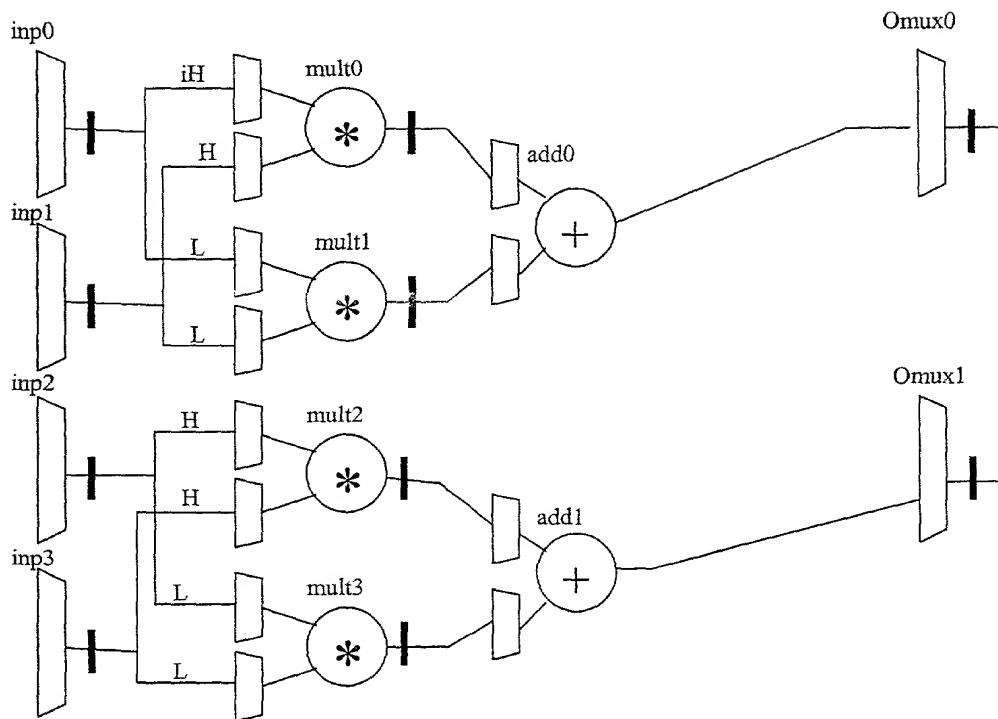
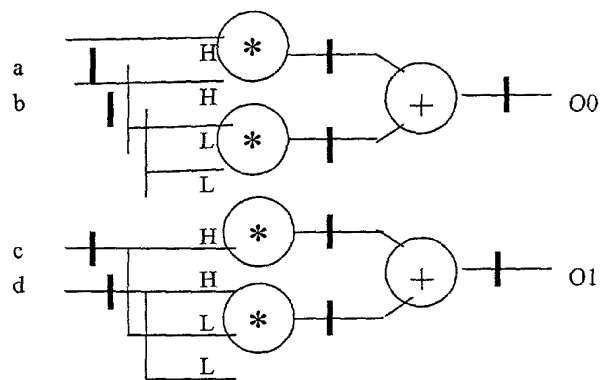


FIGURE 3F

CMULT – 32-bit output complex multiply with 32-Bit accumulation input, Assumes real part in High 16-bits, imaginary in Low 16-bits

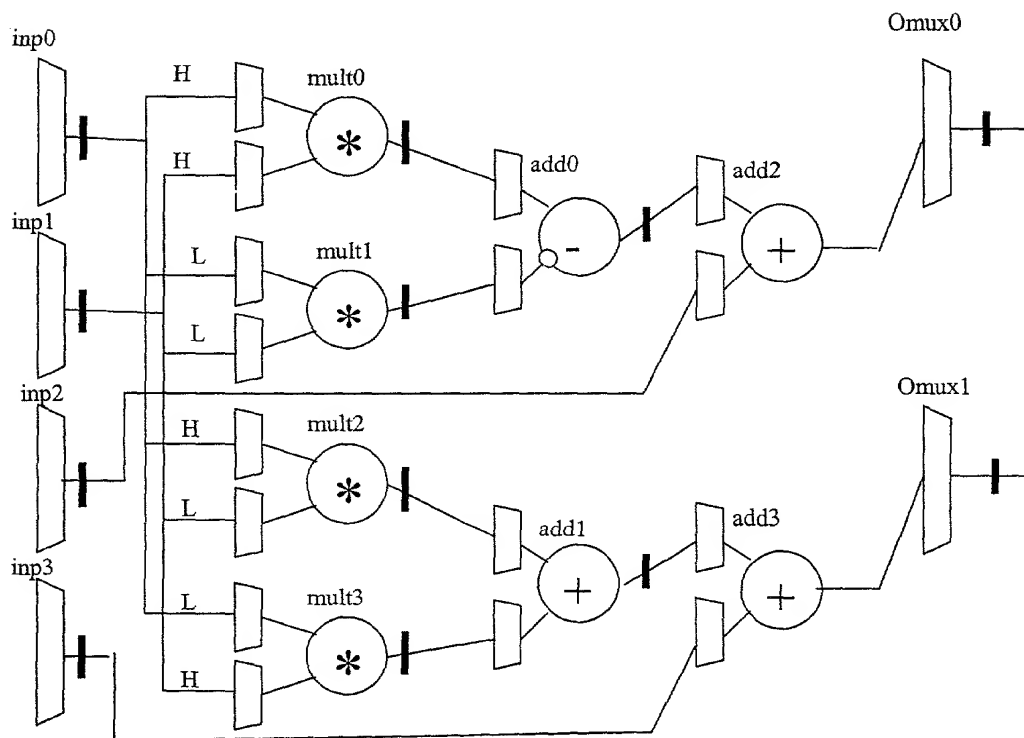
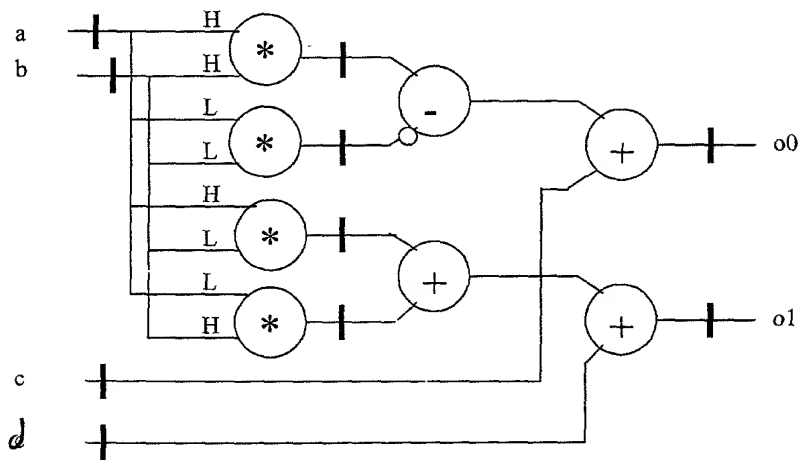


FIGURE 36

CMULT16 – Complex Multiplier with 16-Bit Packed data, and indepent delay path.
Assumes real part in High 16-bits, imaginary in Low 16-bits

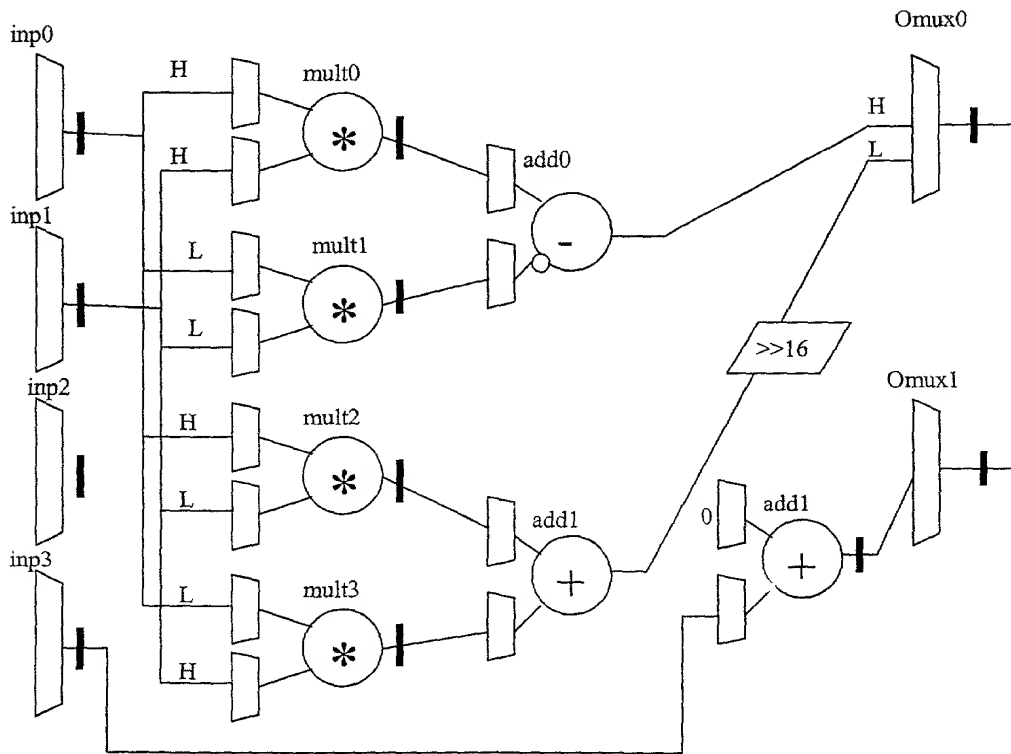
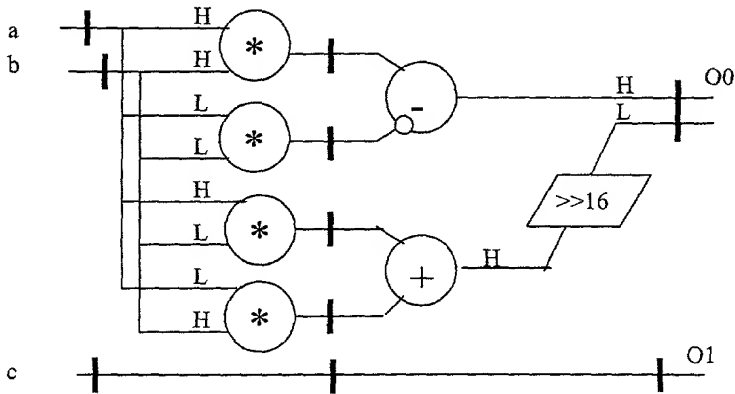


FIGURE 3H

4FIR - 4 tap FIR filter

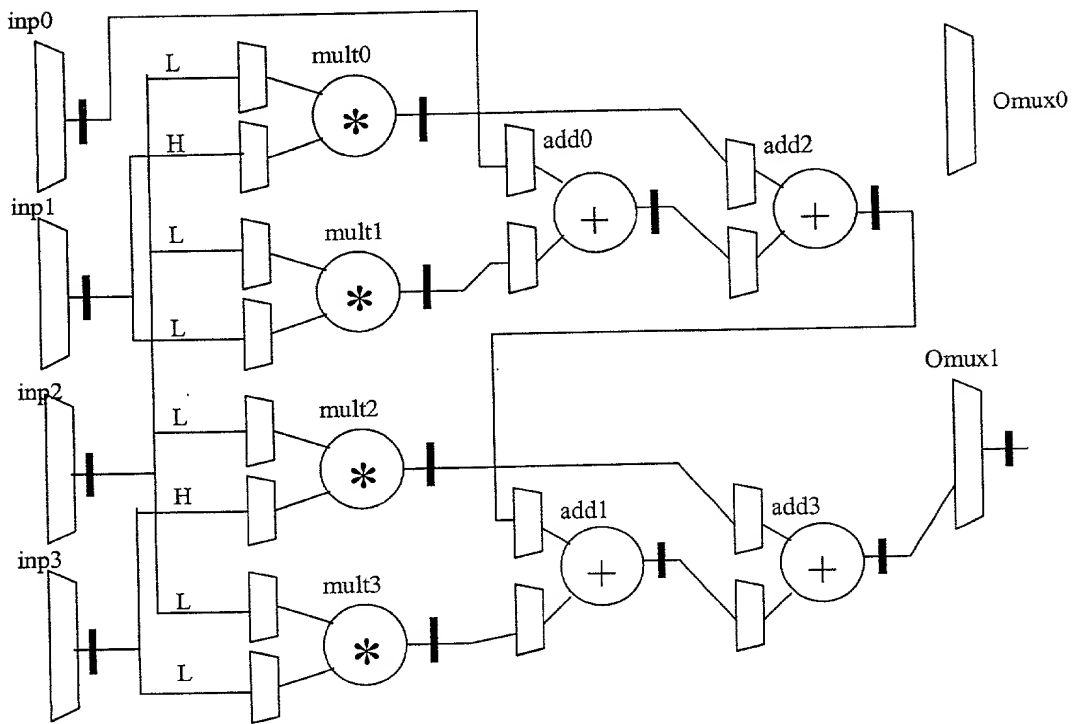
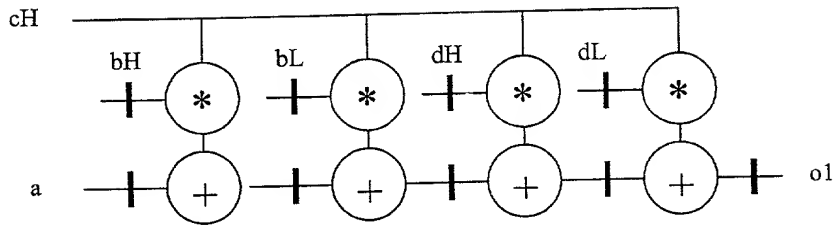


FIGURE 31

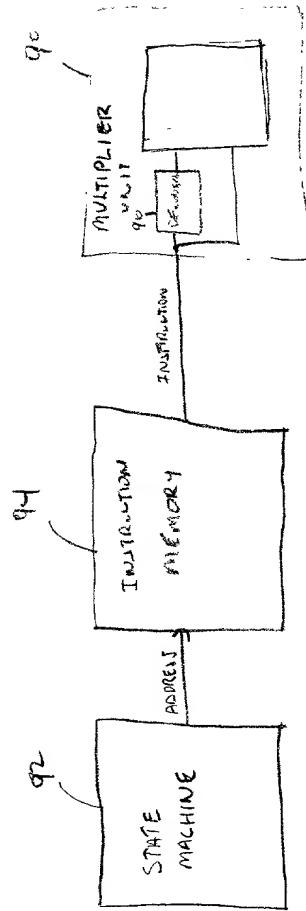


FIGURE 5

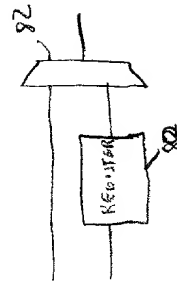


FIGURE 4

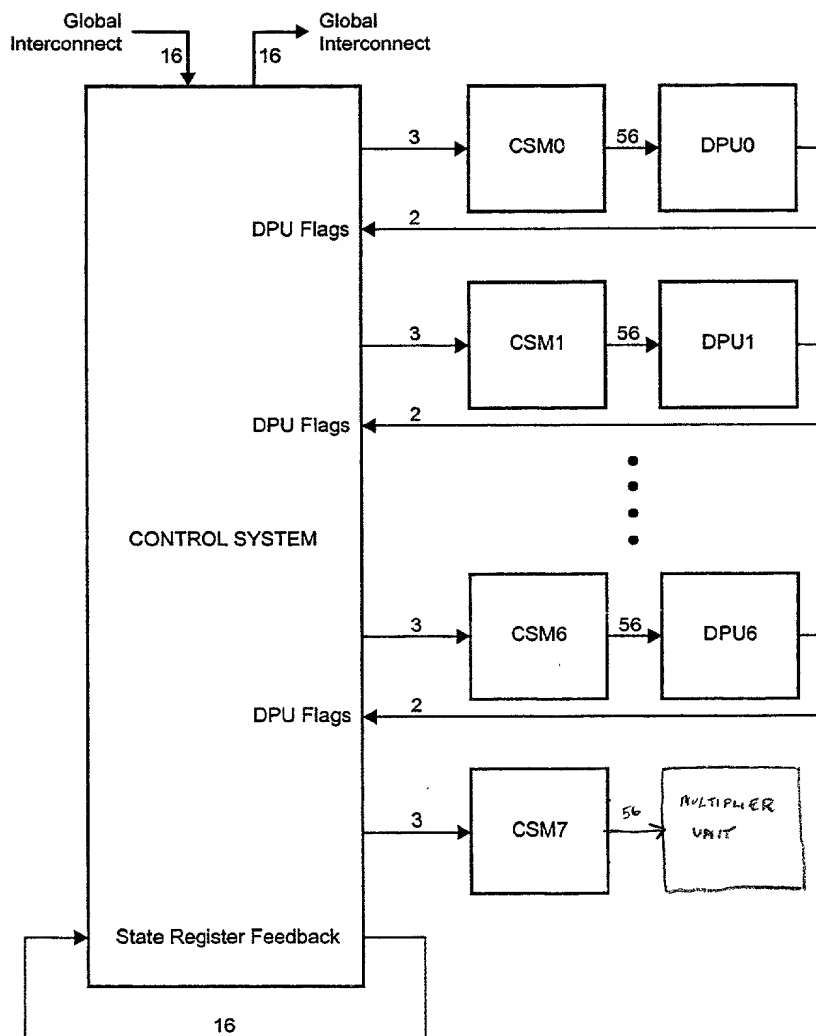


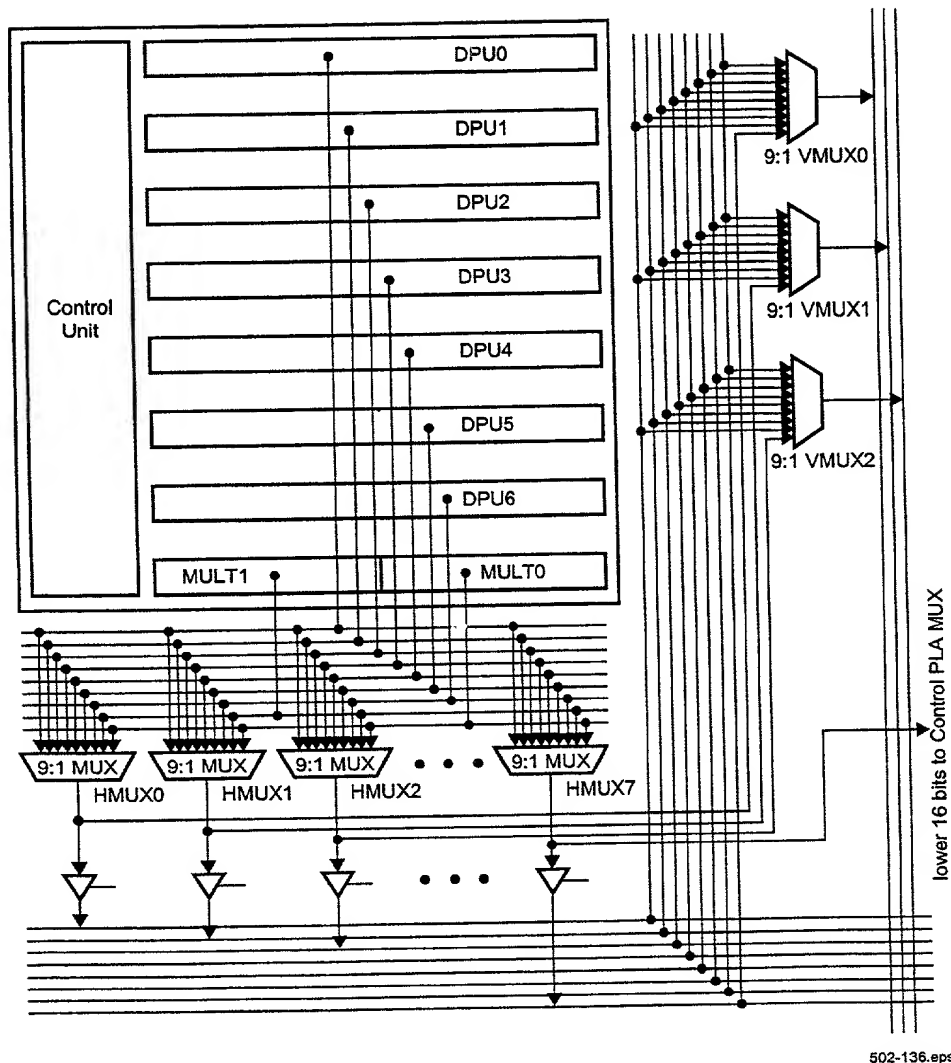
FIGURE 6

Hand-drawn diagram of a neural network architecture. The diagram consists of a vertical stack of 14 rectangular boxes representing layers. The layers are labeled as follows from top to bottom:

- DPU
- DPU
- DPU
- DPU
- DPU
- DPU
- DPU
- MULTIPLIER
- DPU
- DPU
- DPU
- DPU
- MULTIPLIER

Arrows indicate the flow of data between the layers, showing a sequential flow from top to bottom. The 'MULTIPLIER' layers are highlighted with a different background color.

FIGURE 7



502-136.eps

FIGURE 8

Figure 1 illustrates a 3x3 array of tiles. The top-left tile, labeled "TILE 0", contains a box with the text "Select as registered input for desired DPU/MULT". The middle-left tile is labeled "TILE 1". The bottom-left tile is labeled "TILE 2" and contains a box with the text "MUX from desired DPU/MULT 0 Reg onto one of three available Global Vertical Nets". Arrows indicate data flow from the input boxes to a central vertical line, which then branches out to the right. Ellipses (...) are used to indicate that the array continues in both horizontal and vertical directions.

502-135.eps

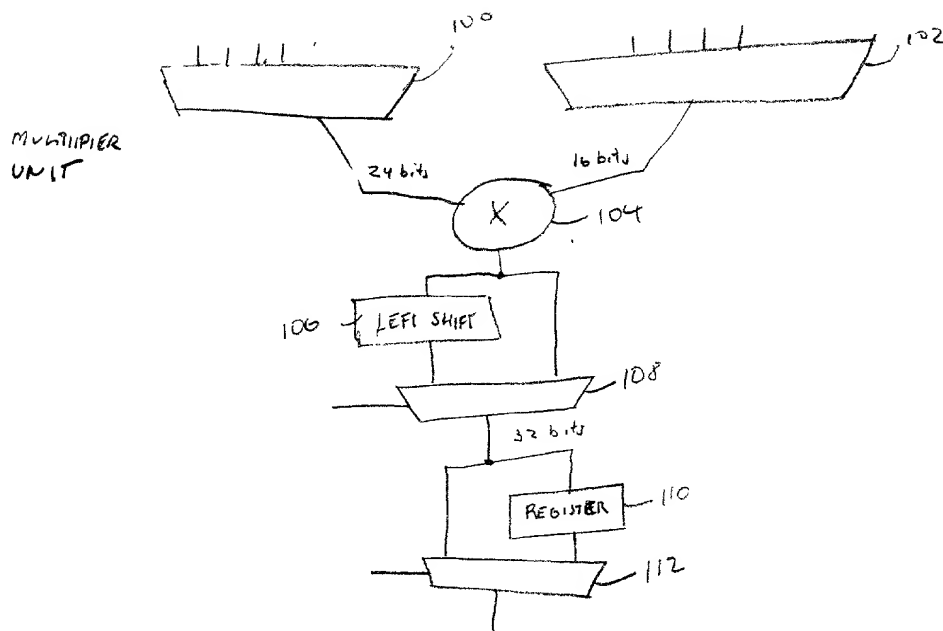


FIGURE 11

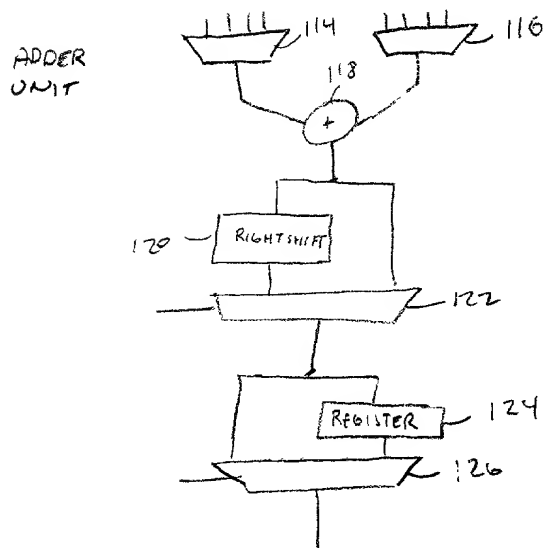


FIGURE 12

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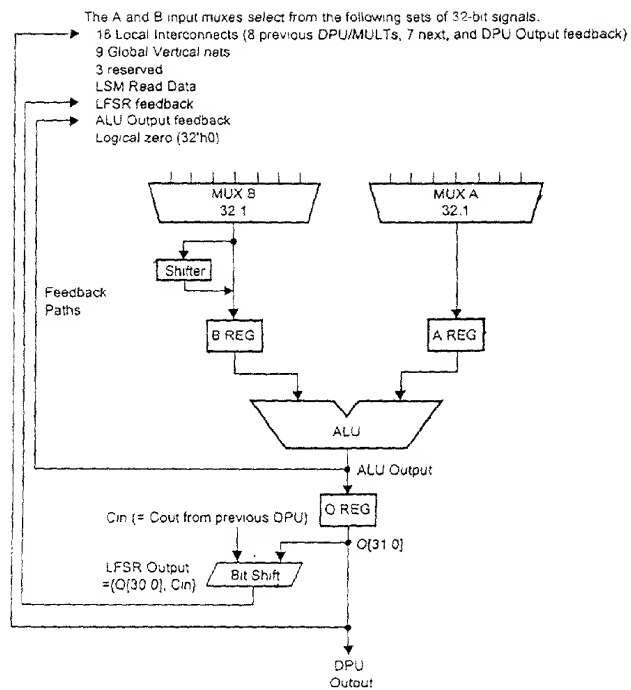


FIGURE 13